

Title (en)
Multi-wavelength light source

Title (de)
Mehrwellenlängen-Lichtquelle

Title (fr)
Source de lumière à longueurs d'ondes multiples

Publication
EP 1237305 A2 20020904 (EN)

Application
EP 02004672 A 20020228

Priority
• IL 14172701 A 20010228
• IL 14449801 A 20010723
• IL 14672301 A 20011125

Abstract (en)
A system for converting a single input beam of light into a plurality of spatially or angularly shifted output beams, each having a different wavelength supplies the single input beam of light to the first of a plurality of cascaded acousto-optical and/or stimulated Brillouin scattering (SBS) wavelength-shifting devices in optical communication with each other. This causes the first wavelength-shifting device to produce a first output beam having a wavelength shifted from that of the input beam. The output beam from each of the cascaded wavelength-shifting devices is supplied to the next such device to cause each successive wavelength-shifting device to produce an output beam having a wavelength shifted from the wavelength of the input beam to that device. Thus, variations in the wavelength of the input beam or in temperature or strain of the wavelength-shifting devices will cause the wavelengths of the output beams to uniformly vary, thus maintaining constant intra-wavelength spacings among the output beams.
<IMAGE>

IPC 1-7
H04B 10/155; **H04J 14/02**

IPC 8 full level
G02B 6/34 (2006.01); **G02F 2/02** (2006.01); **H04B 10/155** (2006.01); **H04B 10/50** (2013.01); **H04B 10/564** (2013.01); **H04B 10/572** (2013.01); **H04J 14/02** (2006.01)

CPC (source: EP US)
G02B 6/2931 (2013.01 - EP US); **G02B 6/29314** (2013.01 - EP US); **G02F 2/02** (2013.01 - EP US); **H04B 10/506** (2013.01 - EP US); **H04B 10/564** (2013.01 - EP US); **H04B 10/572** (2013.01 - EP US); **H04J 14/02** (2013.01 - EP US); **G02F 2203/56** (2013.01 - EP US)

Citation (applicant)
JP H1115032 A 19990122 - TOKYO ELECTRIC POWER CO, et al

Cited by
CN110426372A; EP4152647A4; EP3698168A4; US11808888B2; US11555895B2; US11614521B2; WO2019079642A1; US11460554B2; US11675050B2; US11947047B2; US11789132B2; US11796645B1; US11422267B1; US11567213B2; US11609336B1; US11662440B2; US11789128B2; US11493601B2; US11579258B1; US11914076B2; US11579300B1; US11624806B2; US11871130B2; US11662439B2; US11921234B2; US11289873B2; US11569632B2; US11768294B2; US11860316B1; US11604279B2; US11675053B2; US11762065B2; US11860313B2; US11391823B2; US11567182B2; US11782138B2; US11927696B2; US11300683B2; US11644543B2; US11686824B2; US11953601B2; US11614526B1; US11675055B2; US11782132B2; US11782131B2; US11899134B2; US11940570B2

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GB

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EP 02004672 A 20020228; CA 2373952 A 20020228; US 8479602 A 20020227